

DP-309461

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ELECTRIC BRAKE CALIPER HAVING A
BALLSCREW WITH INTEGRAL GEAR CARRIER

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ABSTRACT OF THE DISCLOSURE

An electric brake caliper includes a ball screw apparatus having a cup-shaped ball screw including an annular cylindrical sidewall disposed about a rotational axis and closed at one axial end thereof by an end wall joined around an entire periphery thereof integrally with the sidewall. The end wall is adapted to form a carrier for operatively supporting at least one planetary gear. The ball screw apparatus also includes a ball screw nut operatively engaged with the ball screw. The annular cylindrical sidewall of the ball screw also defines an axial length of the ball screw and a ball track extending about the sidewall along the axial length of the ball screw from starting point that is adjacent to, but axially spaced from, the closed end of the ball screw. The ball track further includes a ball return track.